

What is claimed:

1. A communique system for providing communique communication services to subscribers, who are equipped with wireless subscriber devices, via a cellular communication network that includes a plurality of cell sites, each of which provides a plurality of wireless communication channels in a cell that covers a predetermined volume of space around a cell site transmitting antenna, comprising:

means for receiving program content from a plurality of program sources;

means for selecting at least one of said plurality of cells to provide a communique communication service; and

means for routing program content from at least one of said plurality of program sources to cell sites associated with said selected at least one of said plurality of cells for transmission via a one of said plurality of wireless communication channels to a plurality of wireless subscriber devices served by said selected at least one of said plurality of cells to provide said communique communication service.

2. The communique system of claim 1 wherein said means for routing comprises:

means for combining said received program content into a plurality of program streams, each of which comprises at least one media from the class of media including: audio, video, graphics, text, data, and the like.

3. The communique system of claim 2 further comprising:

means for transmitting a program stream to said cell sites associated with said selected at least one of said plurality of cells; and

wherein said means for routing further comprises:

means for transmitting program stream parsing control signals to said cell sites associated with said at least one of said plurality of cells to define at least one communique that is excerpted from said program stream in said cell sites associated with said selected at least one of said plurality of cells.

4. The communique system of claim 3 further comprising:

means, located in said at least one of said plurality of cell sites, for generating a plurality of communiques from said received program stream and said program stream parsing control signals; and

means for transmitting said plurality of communiques to said plurality of wireless subscriber devices served by said selected at least one of said plurality of cells.

5. The communique system of claim 2 further comprising:

means for transmitting a program stream to said plurality of wireless subscriber devices served by said selected at least one of said plurality of cells; and wherein said means for routing further comprises:

means for transmitting program stream parsing control signals to said plurality of wireless subscriber devices served by said selected at least one of said plurality of cells to define at least one communique that is excerpted from said program stream.

6. The communique system of claim 5 further comprising:

means for generating a plurality of subframes from said received program stream and said program stream parsing control signals for transmission to said plurality of wireless subscriber devices served by said selected at least one of said plurality of cells.

7. The communique system of claim 6 further comprising:

means for generating program stream subframe parsing control signals to define at least one communique that is excerpted from a subframe of said program stream; and means for transmitting said received program stream subframe and said program stream subframe parsing control signals to said plurality of wireless subscriber devices served by said selected at least one of said plurality of cells.

8. The communique system of claim 1 wherein said means for routing comprises:

means for dividing a communication space in at least two dimensions to create said plurality of communication channels for carrying data; and

means for transmitting each said received program content in a selected one of said communication channels.

9. The communique system of claim 8 wherein said means for dividing comprises:

means for dividing a communication space in in time, frequency and code domains to create said plurality of communication channels, each comprising a plurality of communication segments for carrying data.

5 10. The communique system of claim 9 wherein said received program content comprises communique transmissions and at least one of the classes of transmissions: voice, and data transmissions, said means for routing further comprises:

 means for assigning at least one of said plurality of communication channels exclusively for use in transmitting each of said at least two classes of transmissions; and

10 means for transmitting each of said received program content comprising at least two of: voice, data and communique transmissions in said associated assigned ones of said plurality of communication channels.

15 11. The communique system of claim 10 wherein said means for routing further comprises:

 means for reserving at least one of said plurality of communication channels for use on a non-exclusive basis for use in transmitting each of said at least two classes of transmissions.

20 12. A method of operating a communique system for providing communique communication services to subscribers, who are equipped with wireless subscriber devices, via a cellular communication network that includes a plurality of cell sites, each of which provides a plurality of wireless communication channels in a cell that covers a predetermined volume of space around a cell site transmitting antenna, comprising the steps of:

25 receiving program content from a plurality of program sources;

 selecting at least one of said plurality of cells to provide a communique communication service; and

30 routing program content from at least one of said plurality of program sources to cell sites associated with said selected at least one of said plurality of cells for transmission via a one of said plurality of wireless communication channels to a plurality of wireless subscriber devices served by said selected at least one of said plurality of cells to provide said communique communication service.

35 13. The method of operating a communique system of claim 12 wherein said step of routing comprises:

combining said received program content into a plurality of program streams, each of which comprises at least one media from the class of media including: audio, video, graphics, text, data, and the like.

5 14. The method of operating a communicate system of claim 13 further comprising the step of:

transmitting a program stream to said cell sites associated with said selected at least one of said plurality of cells; and

wherein said step of routing further comprises:

10 transmitting program stream parsing control signals to said cell sites associated with said at least one of said plurality of cells to define at least one communicate that is excerpted from said program stream in said cell sites associated with said selected at least one of said plurality of cells.

15 15. The method of operating a communicate system of claim 14 further comprising the steps of:

generating, in said at least one of said plurality of cell sites, a plurality of communicates from said received program stream and said program stream parsing control signals; and

20 transmitting said plurality of communicates to said plurality of wireless subscriber devices served by said selected at least one of said plurality of cells.

25 16. The method of operating a communicate system of claim 13 further comprising the step of:

transmitting a program stream to said plurality of wireless subscriber devices served by said selected at least one of said plurality of cells; and

wherein said step of routing further comprises:

30 transmitting program stream parsing control signals to said plurality of wireless subscriber devices served by said selected at least one of said plurality of cells to define at least one communicate that is excerpted from said program stream.

17. The method of operating a communicate system of claim 16 further comprising the step of:

generating a plurality of subframes from said received program stream and said program stream parsing control signals for transmission to said plurality of wireless subscriber devices served by said selected at least one of said plurality of cells.

5 18. The method of operating a communicate system of claim 17 further comprising the steps of:

generating program stream subframe parsing control signals to define at least one communicate that is excerpted from a subframe of said program stream; and

10 transmitting said received program stream subframe and said program stream subframe parsing control signals to said plurality of wireless subscriber devices served by said selected at least one of said plurality of cells.

15 19. The method of operating a communicate system of claim 12 wherein said step of routing comprises:

dividing a communication space in at least two dimensions to create said plurality of communication channels for carrying data; and

transmitting each said received program content in a selected one of said communication channels.

20 20. The method of operating a communicate system of claim 19 wherein said step of dividing comprises:

dividing a communication space in in time, frequency and code domains to create said plurality of communication channels, each comprising a plurality of communication segments for carrying data.

25 21. The method of operating a communicate system of claim 20 wherein said received program content comprises communicate transmissions and at least one of the classes of transmissions: voice, and data transmissions, said step of routing further comprises:

30 assigning at least one of said plurality of communication channels exclusively for use in transmitting each of said at least two classes of transmissions; and

transmitting each of said received program content comprising at least two of: voice, data and communicate transmissions in said associated assigned ones of said plurality of communication channels.

22. The method of operating a communicate system of claim 21 wherein said step of routing further comprises:

reserving at least one of said plurality of communication channels for use on a non-exclusive basis for use in transmitting each of said at least two classes of transmissions.

23. A communicate system for providing communicate communication services to subscribers, who are equipped with wireless subscriber devices, via a cellular communication network that includes a plurality of cell sites, each of which provides a plurality of wireless communication channels in a cell that covers a predetermined volume of space around a cell site transmitting antenna, comprising:

program manager means for receiving program content from a plurality of program sources;

spatial temporal content manager means for selecting at least one of said plurality of cell sites to provide a communicate communication service; and

router means for routing program content from at least one of said plurality of program sources to said selected at least one of said plurality of cell sites for transmission via a one of said plurality of wireless communication channels to a plurality of wireless subscriber devices served by said selected at least one of said plurality of cell sites to provide said communicate communication service.

24. The communicate system of claim 23 wherein said router means comprises: content scheduling means for combining said received program content into a plurality of program streams, each of which comprises at least one media from the class of media including: audio, video, graphics, text, data, and the like.

25. The communicate system of claim 24 further comprising: distribution means for transmitting a program stream to said cell sites associated with said selected at least one of said plurality of cells; and

wherein said router means further comprises:

control signal means for transmitting program stream parsing control signals to said cell sites associated with said at least one of said plurality of cells to define at least one communicate that is excerpted from said program stream in said cell sites associated with said selected at least one of said plurality of cells.

26. The communicate system of claim 25 further comprising:

communicate generation means, located in said at least one of said plurality of cell sites, for generating a plurality of communiques from said received program stream and said program stream parsing control signals; and

program distribution means for transmitting said plurality of communiques to said plurality of wireless subscriber devices served by said selected at least one of said plurality of cells.

27. The communicate system of claim 24 further comprising:

link means for transmitting a program stream to said plurality of wireless subscriber devices served by said selected at least one of said plurality of cells; and wherein said router means further comprises:

communicate parsing control means for transmitting program stream parsing control signals to said plurality of wireless subscriber devices served by said selected at least one of said plurality of cells to define at least one communicate that is excerpted from said program stream.

28. The communicate system of claim 27 further comprising:

subframe generating means for generating a plurality of subframes from said received program stream and said program stream parsing control signals for transmission to said plurality of wireless subscriber devices served by said selected at least one of said plurality of cells.

29. The communicate system of claim 28 further comprising:

subframe control means for generating program stream subframe parsing control signals to define at least one communicate that is excerpted from a subframe of said program stream; and

transmitter means for transmitting said received program stream subframe and said program stream subframe parsing control signals to said plurality of wireless subscriber devices served by said selected at least one of said plurality of cells.

30. The communicate system of claim 23 wherein said router means comprises:

subframe generating means for dividing a communication space in at least two dimensions to create said plurality of communication channels for carrying data; and

transmitter means for transmitting each said received program content in a selected one of said communication channels.

31. The communique system of claim 30 wherein said subframe generating means comprises:

domain parsing means for dividing a communication space in in time, frequency and code domains to create said plurality of communication channels, each comprising a plurality of communication segments for carrying data.

32. The communique system of claim 31 wherein said received program content comprises communique transmissions and at least one of the classes of transmissions: voice, and data transmissions, said router means further comprises:

channel assignment means for assigning at least one of said plurality of communication channels exclusively for use in transmitting each of said at least two classes of transmissions; and

transmitter means for transmitting each of said received program content comprising at least two of: voice, data and communique transmissions in said associated assigned ones of said plurality of communication channels.

33. The communique system of claim 32 wherein said router means further comprises:

channel allocation means for reserving at least one of said plurality of communication channels for use on a non-exclusive basis for use in transmitting each of said at least two classes of transmissions.

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